

*** This program has been terminated. ***

COMPUTER-INTEGRATED MACHINING with Pitt Community College

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Course work may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

NOTE: Upon completion of all requirements, the A.A.S. in Computer-Integrated Machining is granted by Pitt Community College. The hours at Martin Community College are listed below.

COMPUTER-INTEGRATED MACHINING

A.A.S. Degree (A50210)

Suggested Sequence of Courses

Prefix	Course Title	Class	Lab	Clinic	Work	Credit	Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER 1 at Martin Community College							FALL SEMESTER 2 at Pitt Community College						
ACA 122	College Transfer Success	0	2	0	0	1	MAC 121	Intro to CNC	2	0	0	0	2
BPR 111	Print Reading	1	2	0	0	2	MAC 122	CNC Turning	1	3	0	0	2
ENG 111	Writing and Inquiry	3	0	0	0	3	MAC 124	CNC Milling	1	3	0	0	2
MAT 110	Math Measurement & Literacy	2	2	0	0	3	MAC 142	Machining Applications II	2	6	0	0	4
	Humanities Elective	3	0	0	0	3	MAC 231	CAM: CNC Turning	1	4	0	0	3
	TOTALS	9	6	0	0	12	MEC 180	Engineering Materials	2	3	0	0	3
							TOTALS		9	19	0	0	16
SPRING SEMESTER 1 at Martin Community College							SPRING SEMESTER 2 at Pitt Community College						
CIS 111	Basic PC Literacy	1	2	0	0	2	MAC 143	Maching Applications III	2	6	0	0	4
DFT 151	CAD I	2	3	0	0	3	MAC 232	CAM: CNC Milling	1	4	0	0	3
ISC 112	Industrial Safety	2	0	0	0	2	MAC 228	Advanced CNC Processes	2	3	0	0	3
	Behavioral/Social Sciences Elective	3	0	0	0	3	MAC 233	Appl in CNC Machining	2	12	0	0	6
	Fine Arts/Communication Elective	3	0	0	0	3	TOTALS		7	25	0	0	16
	TOTALS	11	5	0	0	13							
SUMMER SEMESTER 1 at Pitt Community College							PROGRAM TOTAL						
MAC 114	Intro to Metrology	2	0	0	0	2							67
MAC 141	Machining Applications I	2	6	0	0	4							
MAC 151	Machining Calculations	1	2	0	0	2							
MEC 110	Introduction to CAD/CAM	1	2	0	0	2							
	TOTALS	6	10	0	0	10							